

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number
WO 2005/060350 A3

(51) International Patent Classification⁷: **A61K 38/00**

(21) International Application Number:
PCT/IL2004/001157

(22) International Filing Date:
22 December 2004 (22.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/530,899 22 December 2003 (22.12.2003) US

(71) Applicant (for all designated States except US): **YEDA RESEARCH & DEVELOPMENT CO. LTD.** [IL/IL]; Weizmann Institute of Science, P.O. Box 95, IL-76100 Rehovot (IL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **SHAI, Yechiel** [IL/IL]; 70 Bar-Simantov Street, IL-56333 Yehud (IL).

(74) Agent: **WEBB, Cynthia**; Webb & Associates, P.O. Box 2189, IL-76121 Rehovot (IL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,

GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
6 October 2005

(15) Information about Correction:

Previous Correction:

see PCT Gazette No. 35/2005 of 1 September 2005, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **DIASTEREOMERIC PEPTIDES USEFUL AS INHIBITORS OF MEMBRANE PROTEIN ASSEMBLY**

(57) Abstract: The present invention relates to membrane binding diastereomeric peptides comprising amino acid sequences corresponding to a fragment of a transmembrane proteins, wherein at least two amino acid residues of the diastereomeric peptides being in a D-isomer configuration. The diastereomeric peptides are useful in inhibiting fusion membrane protein events, including specifically viral replication and transmission.



WO 2005/060350 A3